

## **WHAT IS CLAIMED IS:**

1. A water jacket for a cylinder head, comprising:

a coolant flow channel formed between a coolant inlet and a coolant outlet for allowing the coolant to flow in said cylinder head;

5 coolant flow regulation parts provided in said coolant flow channel for accomplishing smooth flow of the coolant between exhaust ports corresponding to respective combustion chambers; and

a coolant flow distribution part provided in said coolant flow channel for uniformly distributing flow of the coolant between said exhaust ports corresponding to the respective combustion chambers.

2. The water jacket as set forth in claim 1, wherein said coolant flow channel comprises:

upper coolant flow channels formed above said exhaust ports in said cylinder head;

15 lower coolant flow channels formed below said exhaust ports in said cylinder head;

and

intermediate coolant flow channels formed between said exhaust ports for connecting said upper coolant flow channels and said lower coolant flow channels, respectively.

20 3. The water jacket as set forth in claim 2, wherein said coolant flow regulation parts are first section-reduction parts formed at the upstream areas of said lower coolant flow channels from the connection between said lower coolant flow channels and said intermediate coolant flow channels, respectively, for reducing the flow section of the coolant.

25 4. The water jacket as set forth in claim 3, wherein said coolant flow regulation parts are formed in said water jacket corresponding to the respective combustion chambers.

5. The water jacket as set forth in claim 2, wherein said coolant flow distribution part is a second section-reduction part formed at the downstream area of one of said upper coolant flow channels from the connection between said upper coolant flow channel and said corresponding intermediate coolant flow channel for reducing the flow section of the coolant.

30 6. The water jacket as set forth in claim 5, wherein said coolant flow distribution part is formed at said upper coolant flow channel closest to said coolant inlet.